

In the Claims:

Claims 1 to 24 (Canceled).

1 25. (New) A gas turbine engine comprising at least one
2 compressor comprising a compressor stator including a
3 compressor stator housing and stationary compressor guide
4 vanes mounted in said compressor stator housing, said gas
5 turbine compressor further comprising a compressor rotor
6 including a rotor shaft, compressor rotor discs secured to
7 said rotor shaft, compressor rotor blades secured to said
8 compressor rotor discs, said gas turbine compressor further
9 comprising at least one electrical generator including a
10 generator stator allocated to said compressor stator and a
11 generator rotor allocated to said compressor rotor, said
12 generator rotor comprising generator rotor blades
13 integrated into said compressor rotor blades (15) so that
14 said generator rotor blades and said compressor rotor
15 blades are a unitary rotor structure, said unitary rotor
16 structure comprising pole pieces movable with said unitary
17 rotor structure for cooperation with said generator stator
18 when said unitary rotor structure rotates.

1 26. (New) The gas turbine engine of claim 25, wherein said pole
2 pieces of said unitary rotor structure are said generator
3 rotor blades which also function as compressor rotor
4 blades.

1 27. (New) The gas turbine engine of claim 25, wherein said pole
2 pieces are mounted to radially outward ends of said
3 generator rotor blades which also function as compressor
4 rotor blades.
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1 28. (New) The gas turbine engine of claim 25, wherein said
2 generator stator is mounted to said compressor stator
3 housing.

1 29. (New) The gas turbine engine of claim 25, wherein said
2 generator stator is mounted to said stationary compressor
3 guide vanes mounted in said compressor stator housing.

1 30. (New) The gas turbine engine of claim 25, comprising means
2 for cooling said generator stator windings by engine fuel.

1 31. (New) The gas turbine engine of claim 30, wherein said
2 generator stator windings are hollow for said engine fuel
3 to flow through said hollow windings.

1 32. (New) The gas turbine engine of claim 25, further
2 comprising control means (50) operatively connected to said
3 at least one electrical generator for operating said at
4 least one electrical generator as a motor for starting said
5 gas turbine engine and for operating said at least one

6 electrical generator for producing electrical energy when
7 said gas turbine engine has started.

1 33. (New) The gas turbine engine of claim 25, comprising two
2 electrical generators and two compressors, wherein one
3 electrical generator of said two electrical generators is
4 allocated to each of said two compressors, a coupling (51)
5 electrically interconnecting said two electrical generators
6 with one another, said gas turbine engine further
7 comprising control means (50) operatively connected to said
8 two electrical generators for operating one of said two
9 electrical generators as a motor with electrical energy
10 provided by the other electrical generator and vice versa.

1 34. (New) The gas turbine engine of claim 33, wherein said two
2 compressors comprise a high pressure compressor and a low
3 pressure compressor, and wherein each compressor has
4 integrated therein one electrical generator of said two
5 electrical generators.

1 35. (New) The gas turbine of claim 34, wherein said control
2 means (50) are operatively connected to said electrical
3 generator of said low pressure compressor and to said
4 electrical generator of said high pressure compressor,
5 wherein said coupling (51) electrically interconnecting
6 said two electrical generators of said low pressure
7 compressor and of said high pressure compressor, also

8 couples said low pressure compressor and said high pressure
9 compressor to one another through said generators so that,
10 in response to said control means (50), said two electrical
11 generators can equalize the power output of said low
12 pressure compressor to the power output of said high
13 pressure compressor and vice versa.

1 36. (New) The gas turbine engine of claim 34, wherein
2 electrical energy produced by said electrical generator of
3 said high pressure compressor is used to operate said
4 electrical generator of said low pressure compressor and
5 vice versa.

1 37. (New) A gas turbine engine comprising at least one
2 compressor comprising a compressor stator including a
3 compressor stator housing and stationary compressor guide
4 vanes mounted in said compressor stator housing, said gas
5 turbine compressor further comprising a compressor rotor
6 including a rotor shaft, compressor rotor discs secured to
7 said rotor shaft, compressor rotor blades secured to said
8 compressor rotor discs, said gas turbine compressor further
9 comprising at least one electrical generator including a
10 generator stator allocated to said compressor stator and a
11 generator rotor allocated to said compressor rotor, wherein
12 said generator stator (21) comprises two generator stator
13 sections (23, 24), each generator stator section comprising
14 at least one stator winding, said generator stator sections

15 being axially spaced from one another to form a radially
16 extending generator rotor gap between said generator stator
17 sections, said generator rotor comprising pole pieces
18 positioned for cooperation with said at least one stator
19 winding, said generator rotor being secured to said rotor
20 shaft in a position for rotating in said radially extending
21 generator rotor gap between said generator stator sections.

1 38. (New) The gas turbine engine of claim 37, further
2 comprising means for cooling said generator stator windings
3 by engine fuel.

1 39. (New) The gas turbine engine of claim 38, wherein said
2 generator stator windings are hollow for said engine fuel
3 to flow through said hollow windings.

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